

KANAB CREEK BASIN

09403600 KANAB CREEK NEAR KANAB, UT

LOCATION--Lat 37° 06'02", long 112° 32'50", in NE_{1/4}NE_{1/4}SW_{1/4} sec. 5, T. 43 S., R. 6 W., Kane County, Hydrologic Unit 15010003, on left bank at upstream side of bridge on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

DRAINAGE AREA--198 mi².

PERIOD OF RECORD--July 1959 to Sept. 1968 (peaks only), January 1979 to current year

REVISED RECORDS--WDR UT-98-1: 1997, daily values.

GAGE--Water-stage recorder and crest-stage gage. Elevation of gage is 5,060 ft above NGVD of 1929, from topographic map. A crest-stage gage from July 22, 1959, to Sept. 30, 1968, at different datum. July 6, 1979 to September 18, 1984 water-stage recorder at same site, different datum.

REMARKS--Records poor. Several diversions above station for irrigation and stock watering.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 3,030 ft³/s, Sept. 8, 1961, gage height, 8.39 ft, from rating curve extended above 31 ft³/s on basis of slope area measurement at gage height, 7.09 ft; minimum daily discharge, 2.9 ft³/s, July 27, 2000.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 200 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28.....	1200	*14	*5.68

Minimum daily discharge, 3.3 ft³/s, Jan 23, Jun 1, Aug 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	4.5	6.6	6.1	e3.9	6.3	10	7.8	3.3	5.2	4.5	4.2
2	5.5	4.6	6.2	6.2	e4.0	7.7	9.2	7.8	4.0	5.5	5.0	4.4
3	5.7	4.6	5.8	6.4	e4.6	8.7	11	7.3	5.8	6.0	5.6	4.5
4	5.7	4.7	6.5	6.4	5.0	6.8	9.4	6.5	6.3	5.8	5.0	4.5
5	5.7	4.7	6.0	6.2	5.6	6.7	9.1	6.1	6.4	5.9	4.8	4.4
6	5.6	4.7	5.9	6.0	6.1	6.1	7.7	5.8	5.4	5.5	4.9	5.0
7	5.8	4.8	5.7	5.6	5.7	6.5	7.1	6.8	5.7	5.9	4.8	7.1
8	5.8	4.9	5.6	5.8	5.4	7.1	6.9	7.8	5.0	5.9	4.7	6.2
9	5.5	5.0	5.7	5.7	5.1	7.5	7.4	7.8	4.7	6.3	4.3	5.5
10	5.2	4.7	6.1	5.8	5.6	7.8	7.6	8.3	5.4	6.0	3.8	5.8
11	5.3	4.5	6.0	5.7	5.1	7.5	8.6	8.6	5.6	5.6	3.4	5.8
12	5.4	4.5	6.1	5.6	4.6	7.8	7.7	8.9	5.1	5.9	3.6	5.5
13	5.4	4.9	e5.8	5.8	5.1	8.2	7.9	8.7	4.9	5.9	3.5	4.5
14	5.4	4.9	e6.1	5.5	4.2	9.9	7.6	8.4	4.7	5.9	3.7	4.5
15	5.3	4.7	e6.0	4.9	4.5	8.6	7.3	7.4	5.1	6.5	3.8	3.8
16	5.2	4.6	e5.8	5.0	5.2	10	6.9	6.4	4.7	7.2	3.9	4.7
17	5.1	4.5	e5.9	5.6	5.0	11	7.7	5.9	4.9	7.4	3.5	4.6
18	4.8	4.7	e6.0	5.6	5.0	10	7.3	5.5	4.9	6.9	4.0	4.8
19	4.8	5.0	e6.1	e5.4	5.2	9.1	7.2	5.9	4.8	7.4	3.9	4.6
20	4.7	5.3	e6.5	5.7	6.4	11	7.8	7.6	5.0	7.9	3.3	4.7
21	4.8	5.3	e6.3	4.3	5.8	9.3	8.3	8.4	5.4	7.4	3.9	4.6
22	4.9	5.3	e6.1	3.6	6.3	9.8	7.1	8.3	5.6	6.7	4.1	4.4
23	4.7	5.5	e6.0	e3.3	7.1	11	6.3	10	5.9	5.6	4.2	4.4
24	4.5	6.3	e5.5	e3.6	7.2	11	6.5	10	6.3	6.4	4.0	4.4
25	5.0	7.5	e5.4	e3.9	8.0	10	6.3	9.5	5.8	6.6	3.7	4.3
26	4.7	7.2	e5.3	4.4	7.3	9.3	5.8	9.1	5.8	6.3	4.1	4.0
27	4.6	7.0	e5.3	5.1	7.7	11	5.9	8.9	5.7	5.6	4.3	4.1
28	4.5	7.3	e5.8	4.2	7.3	9.8	7.1	8.2	5.5	5.3	4.4	4.1
29	4.5	7.1	e6.2	4.4	---	9.4	8.0	5.8	5.5	5.2	4.1	4.6
30	4.5	6.7	6.6	e4.0	---	9.4	6.9	4.2	5.6	5.0	4.3	5.1
31	4.3	---	6.2	e3.9	---	9.4	---	3.6	---	4.7	4.6	---
TOTAL	158.6	160.0	185.1	159.7	158.0	273.7	229.6	231.3	158.8	189.4	129.7	143.1
MEAN	5.116	5.333	5.971	5.152	5.643	8.829	7.653	7.461	5.293	6.110	4.184	4.770
MAX	5.8	7.5	6.6	6.4	8.0	11	11	10	6.4	7.9	5.6	7.1
MIN	4.3	4.5	5.3	3.3	3.9	6.1	5.8	3.6	3.3	4.7	3.3	3.8
AC-FT	315	317	367	317	313	543	455	459	315	376	257	284

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

(WY)	1982	1988	1980	1997	1980	1983	1980	1980	1981	1981	1998
MIN	5.12	5.33	5.31	5.15	5.64	8.83	6.81	5.62	4.36	3.90	4.07

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR

	ANNUAL TOTAL	2821.7	2177.0	WATER YEARS 1980 - 2002
ANNUAL MEAN		7.731	5.964	12.27
HIGHEST ANNUAL MEAN				28.4
LOWEST ANNUAL MEAN				5.96
HIGHEST DAILY MEAN	54	Sep 17	11 Mar 17	2002
LOWEST DAILY MEAN	3.2	Aug 5	3.3 Jan 23	Apr 6 1980
ANNUAL SEVEN-DAY MINIMUM	3.5	Jul 30	3.6 Aug 11	Jul 27 2000
ANNUAL RUNOFF (AC-FT)	5600		4320	Jun 13 1986
10 PERCENT EXCEEDS	16		8.3	19
50 PERCENT EXCEEDS	5.7		5.7	8.9
90 PERCENT EXCEEDS	4.3		4.2	5.3

e Estimated